

WATER PROTECTION BUREAU

e se	Agency Use
	Permit No.:
	Date Rec'd 2/3/9
	Amount Rec'd 00
	Check No.
	Rec'd By (12)

FORM NMP

Nutrient Management Plan

READ THIS BEFORE COMPLETING FORM: Before completing this form (Form NMP), Concentrated Animal Feeding Operation (CAFO) operators need to read the General Permit, particularly Part IV.A. CAFO operators also need to read the "Instructions For Filling Out Form NMP," found at the back of the Form. Form NMP is intended to help CAFO operators develop a site-specific Nutrient Management Plan, in compliance with Part IV.A of the General Permit and all applicable State rules and statutes. Your Nutrient Management Plan must be maintained at the site as required in Part III of the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your Form 2B. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. For additional help in filling out this form please read the attached instructions. The 2008 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp

Section A - NMP Status (Check one):
X New No prior NMP submitted for this site.
☐ Modification Change or update to existing NMP.
Permit Number: MT G010000 (Specify the permit number that was previously assigned to your facility.)
Section B - Facility or Site Information.
Site Name NORMAN HAALAND BLUE CREEK CATTLE FEEDERS
Site Location 24 BENDER ROAD
Nearest City or Town BILLINGS County YELLOWSTONE
Section C - Applicant (Owner/Operator) Information:
Owner or Operator Name NORMAN HAALAND
Mailing Address P.O. BOX 97
City, State, and Zip Code SHEPHERD, MT 59079
Phone Number (406) 855-4832

RECEIVED

FEB 0 3 2009

DEQMPB PERMITTING & COMPLIANCE DIV.

Animal Type and number of animals	# of Days on Site (per year)	Annual Manure Production (tons, cu. yds.or gal)
1. FINISHING CATTLE 7371 HEAD	701,724	18,946.548 TO
2.	CELENTIAL DESCRIPTION OF THE PROPERTY OF THE P	
3.	The state of the s	
4.	THE RESIDENCE OF THE SECRETARY CONTRACTOR OF THE SECRETARY	
5.		
6.	The second secon	3
7.		
8.		and an analysis of the analysi
Method used for estimating annual manure production		and the second s
TOTAL HEAD DAYS x 54#		
		_
2. Manure Handling Describe manure handling at the facility: LOADER LOADS SPREADER TRUCKS AND) SPREAD TO FIELDS OF TO T	- BONF
Describe manure handling at the facility:	SPREAD TO FIELDS OR TO T	-BONE
Describe manure handling at the facility:		-BONE
Describe manure handling at the facility: LOADER LOADS SPREADER TRUCKS AND Frequency of Manure Removal from confinement area	s: than the confinement area? X Ye	
Describe manure handling at the facility: LOADER LOADS SPREADER TRUCKS AND Frequency of Manure Removal from confinement area ANNUALLY s this manure temporarily stored in any location other	s: than the confinement area? X Ye	
Describe manure handling at the facility: LOADER LOADS SPREADER TRUCKS AND Frequency of Manure Removal from confinement area ANNUALLY s this manure temporarily stored in any location other f so then how and where? HAULED TO T-BONE	s: than the confinement area? X Ye	

Section D. - NMP Minimum Elem ts:

3. Waste Control Structures						
Waste Control Structure (name/typ	pe) Length (ft)	Width (ft)	Depth (ft)	Volume (cubic ft or gallons)		
1. LAGOON 1	135'	40'	9'	48,600 cubic feet		
2. LAGOON 2	500'	20'	91	90,000 cubic feet		
3. LAGOON 3	600'	200'	14'dike	1.680.000 cubic feet		
4.						
5.						
6.						
7.		·				
8.						
9.						
10.						
11.						
12.		•				
HAULED TO BAKER						
5. Clean Water Diversion Practices Describe how clean water is diverted from production area:						
Berms a Ditchor						
						

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	Ditakes & Bermi - cotrol flow to Layours Pempisk tions at lesoon 1 to pump to lagoull a layour III
	Pompitetions at lesoon to pump to lagoull a layount
7. Chemicals and Describe how che	Contaminants emicals and other contaminants are handled on-site:
NONE	
Describe in detail used to control rul Include a schedule are not limited to: installing gutters, decreasing open learnounts of water PEN 24 LAGOON	all temporary, permanent and structural Best Management Practices (BMPs) which will be noff of pollutants from facility's production area. Indicate the location of these measures. It is for implementation of each of these measures. Examples of BMP measures could include but constructing ditches, terraces, and waterways above an open lot to divert clean water run on; downspouts and buried conduits to divert roof drainage; providing more roofed area; ot surface area; repairing or adjusting water systems to minimize water wastage; using practical for cooling purposes; recycling water if practical and applicable. We and pens 1 thru 4 ARE NATURAL FLOW TO LAGOON 1 1 IS A NATURAL FLOW TO LAGOON 2 2 IS PUMPED TO LAGOON 3
Describe in detail used to control run Include a schedule are not limited to: installing gutters, decreasing open leamounts of water PEN 24 LAGOON LAGOON	all temporary, permanent and structural Best Management Practices (BMPs) which will be noff of pollutants from facility's production area . Indicate the location of these measures. e for implementation of each of these measures. Examples of BMP measures could include but constructing ditches, terraces, and waterways above an open lot to divert clean water run on; downspouts and buried conduits to divert roof drainage; providing more roofed area; ot surface area; repairing or adjusting water systems to minimize water wastage; using practical for cooling purposes; recycling water if practical and applicable. W and pens 1 thru 4 ARE NATURAL FLOW TO LAGOON 1 1 IS A NATURAL FLOW TO LAGOON 2
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Describe in detail all temporary, permanent and structural Best Management Practices (BMPs) which will be used to control runoff of pollutants from facility's land application area. Indicate the location of these				
practices. If not already in use, include a schedule for implementation of each of these measures. Attached details and specifications may be used to supplement this description. Examples of BMP measures could				
irrigation practices to prevent ponding of wa				
frozen ground; consulting with the Department prior to applying any liquid waste to frozen or snow-covered ground; applying wastes at agronomic rates.				
Plant sampling/tissue analysis	yes/no)	Rotational grazing	(yes)no	
Conservation or reduced tillage	yes(no)	Manure injection or incorporation	yes/no	
Terraces or other water control structures	yes/no	Contour plantings	yes/no	
Riparian buffers or vegetative filter strips	yes(no)	Winter "scavenger" or cover crops	yes/no)	
Other examples			· '	
9. Implementation, Operation, Maintenan	ice and Record K	eeping – Guidance		
The permittee is required to develop guidance maintenance of the facility, and record keeping			and	
Has a guidance document been developed for	or the facility?	Yes No		
Certify the document addresses the followin	g requirements:			
Implementation of the NMP: X Yes	No		,	
Facility operation and maintenance: Yes		•		
Record keeping and reporting: Yes Sample collection and analysis: Yes				
Sample collection and analysis: Yes Manure transfer: Yes	Z		•	
	. 1	• .		
Provide name, date and location of most reco			1	
,			1	
New NMP 2007 _	All records	kept at T-Dove tee	uss.	
		Pernellth	176010137	
If your answer to any of the above question	is no, provide expl	anation		

Land Application Data-Narrative approach

The following must be filled out <u>for each field</u> to which manure, litter or process wastewater will or may be applied for the period of the permit (5 years). Use as many sheets as necessary to fulfill this requirement. <u>Fields</u> with identical crops and soil types may be grouped together.

Crops and Manure	
Field Name and spreadable acres to leach (for fields w	vitheiden(ical/crops and soils/type):
Cran I (year I or 2) plant anglish	
Crop 1 (year 1 or ?) plant species	hay barley
Irrigated (Y/N)	
Yield Goal (ton/ac or bushel/ac)	2 ton has.
N Content of soil as nitrate (lbs/acre or ppm)	28
P Content of soil as P ₂ O ₅ (lbs/acre or ppm)	11-12
Time of Year When Application will Occur (month)	Oct-nov
Application frequency (per year by month)	Mearly
Form of manure (liquid/solid)	sold
Method of Application	sprender trumbs
Is manure incorporated or broadcast?	incorporatod
Frequency of Application (yearly, biannual, etc.?)	Mens h.
Crop 2	
Irrigated (Y/N)	
Yield Goal (ton/ac or bushel/ac)	
N Content of soil as Nitrate (lbs/acre or ppm)	
P Content of soil as P ₂ O ₅ (lbs/acre or ppm)	
Time of Year When Application will Occur (month)	
Application frequency (per year, by month)	
Form of manure (liquid/solid)	
Method of Application	
Is manure broadcast, injected or incorporated?	
Frequency of Application (Annual, Biannual, ,etc?)	

Phosphorus Risk Assessment

The permittee shall assess the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or may be applied. If a new field is added in the future, then the permittee must submit a revised (modified) NMP. The permittee has the option of using either Method A or Method B (below) to complete the assessment. Copies of all tables and calculations used to complete the assessments, as well as the results of the assessments, shall be submitted to the Department and copies shall be maintained on-site at the facility and available for Departmental review. The results of the assessments shall be used to determine the appropriate basis for land application of wastes from the facility.

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Indicate	which method	will be	used to	determine	phosphorus	application:
A						* *

Method A – Representative Soil Sample

Method B – Phosphorus Index

Method A - Representative Soil Sample

a) Obtain one or more representative soil sample(s) from the field.

- b) Have the sample analyzed for Phosphorus by a qualified lab. The "Olsen P test" must be used for the analysis, and the result must be reported in parts per million (ppm).
- c) Using the results of the Olsen P test, determine the application basis according to the Table below

Soil Test	
Olsen P Soil Test Result (ppm)	Application Basis
<25.0	Nitrogen Needs Of Crop
25.1 - 100.0	Phosphorus Needs Of Crop
100.0 - 150.0	Phosphorus Needs up to Crop Removal Rate
>150.0	No Application

Method B – Phosphorus Index

- a) Complete a Phosphorus Index according to for each crop grown on each field. Complete table in Appendix A to calculate phosphorus index. For information on filling out specific sections Appendix A, please refer to Attachment 2 of Department Circular DEQ 9.
- b) Using the calculated Total Phosphorus Index Value, assign the overall site/field vulnerability to phosphorus loss according to the table below.

Total Phosphorus				
Total Phosphorus Index Value	Site Vulnerability to Phosphorus Loss			
<11	Low			
11-21	Medium			
22-43	High			
>43.	Very High			

c) Using the calculated Site Vulnerability to Phosphorus Loss, determine the appropriate application basis according to the table below.

Site Vulnerability to Phosphorus Loss	
Site Vulnerability to Phosphorus Loss	Application Basis
Low	Nitrogen Needs
Medium	Nitrogen Needs
High	Phosphorus Need Up to Crop Removal
Very High	Phosphorus Crop Removal or No Application

d) The permittee will complete the *lutrient Budget Worksheet*, below, for each crop grown on each field to which manure or process waste water is or may be applied during the first year of application. A copy of each Nutrient Budget Worksheet will be maintained on site, and a copy will be submitted to the Department.

Nutrient	t Budget Worksheet		
Site/Fiel	'd:		
	Nutrient Budget	Nitrogen-based	Phosphorus-based
		Application	Application
	Crop Nutrient Needs, lbs/acre included in		
	Department Circular DEQ 9		
.(-)	Credits from previous legume crops,		
	lbs/acre (from DEQ-9), as applicable		
(-)	Residuals from past manure production,		
	lbs/acre (lbs/acre applied in previous		
	year(s) x fractions listed in DEQ-9)		
(-) ,	Nutrients supplied by commercial		
	fertilizer and Biosolids, lbs/acre		
(-)	Nutrients supplied in irrigation water,		
	lbs/acre		
	= Additional Nutrients Needed, lbs/acre		
	Total Nitrogen and Phosphorus in manure,		
49	lbs/ton or lbs/1,000 gal (from manure test)		
(x)	Nutrient Avalability factor (for Nitrogen		
<u></u>	based application see DEQ-9, below; for		
	Phosphorus based application use 1.0)		
	= Available Nutrients in Manure,		
vittajistaveliai, Alific	lbs/ton or lbs/1,000 gal		
	Additional Nutrients needed, lbs/acre		
<u> </u>	(calculated above)		
(/)	Available Nutrients in Manure, lbs/ton or		
-	lbs/1,000 gal (calculated above)		
	= Manure Application Rate, tons/acre	The state of the s	
Camman	or 1,000 gal/acre	6	
Commen	//	1 1	
	Currently obtaining field	d Doil sampl	es to determine
CAN	rouse I am ham proving	in many and house	pooding and
100	1 - C is any form provide	a marcine sep.	workey will
call	ulating needs for upcom	ing Crop year	×
			
*			

Section F - CERTIFICATION

Permittee Information:

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A.	Name	(Type	or	Print)	Ì
----	------	-------	----	--------	---

NORMAN HAALAND

B. Title (Type or Print)

OWNER

C. Phone No.

406-373-6006

D. Signature

Morman Haaland

E. Date Signed

1-29-2009

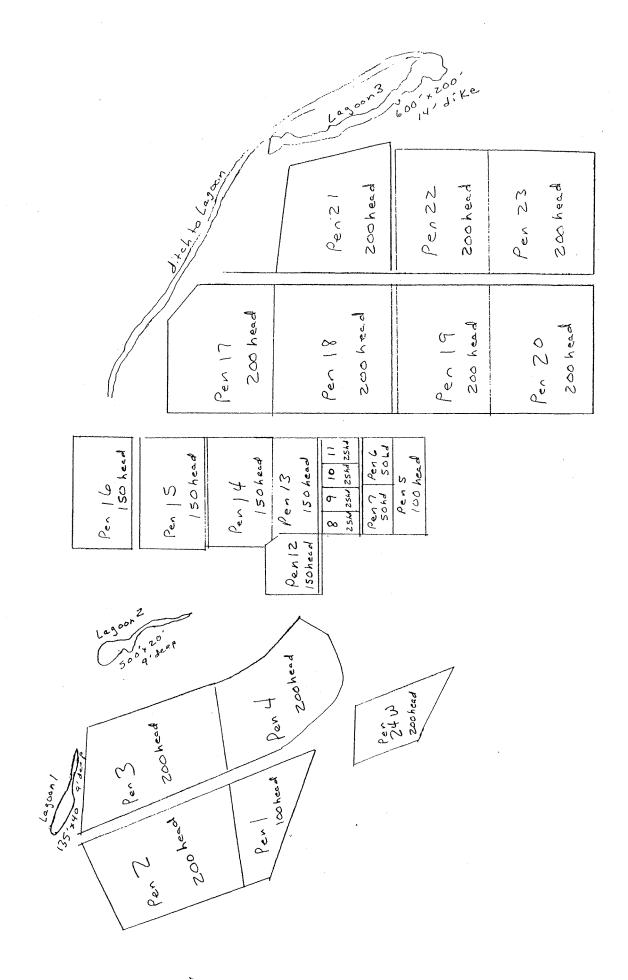
Return the Form NMP, Nutrient Management Plan to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

RECEIVED

FEB 0 3 2003

DEQMPB PERMITTING & COMPLIANCE DIV.



BLUE CREEK CATTLE FEEDERS GALLONS OF LIQUID WATSE 2008

LAGOON #2 PUMPS TO LAGOON #2

					TOTAL
	BEGINNING	ENDING		GALLONS /	GALLONS
DATE	TIME	TIME	HOURS	MINUTE	PUMPED
5/23/2008	9:00 AM	9:00 AM	24	25	36000
5/24/2008	9:00 AM	9:00 AM	24	25	36000
5/25/2008	9:00 AM	7:00 AM	22	25	33000
10/13/2008	8:00 AM	8:00 AM	<u>48</u>	25	<u>72000</u>
TOTAL'S			118		177000

LAGOON #3 PUMPED TO TRACT 8466 FARM 1729 11 2S 26

					TOTAL
	BEGINNING	ENDING		GALLONS /	GALLONS
DATE	TIME	TIME	HOURS	MINUTE	PUMPED
5/22/2008	8:00 AM	4:00 PM	8	50	24000
5/23/2008	7:00 AM	6:00 PM	11	50	33000
5/24/2008	NOON	11:00 PM	11	50	33000
5/26/2008	6:00 AM	4:00 PM	10	50	30000
5/27/2008	7:00 AM	1:00 PM	6	50	18000
10/13/2008	2:30 PM	8:00 AM	65.5	50	196500
10/22/2008	8:00 AM	4:00 PM	<u>8</u>	50	<u>24000</u>
TOTAL'S			119.5		358500

GALLONS PER ACRE 3585

BLUE CREEK CATTLE FEEDERS

CATTLE MANURE CALCULATION IN LOT

·			
	HEAD	HEAD	CATTLE WT IN
	COUNT	DAYS	plus CATTLE
MONTH	IN LOT	IN LOT	OUT WT
1/2008	237	88191	1293971
2/2008	225	52296	1858122
3/2008	1348	36396	2266023
4/2008	1174	58090	1082388
5/2008	234	70660	1019340
6/2008	257	41363	781318
7/2008	125	36218	498343
8/2008	1454	23790	2301208
9/2008	454	50149	1381787
10/2008	901	74193	1677706
11/2008	315	85357	964099
12/2008	<u>647</u>	<u>85021</u>	<u>1794478</u>
	7371	701724	16918783

16918783# / 7371 HD / 2 = 1148 AVG. 701724 X 54# = 37,893,096 / 2000 = 18,946.548 TONS Blue Creek

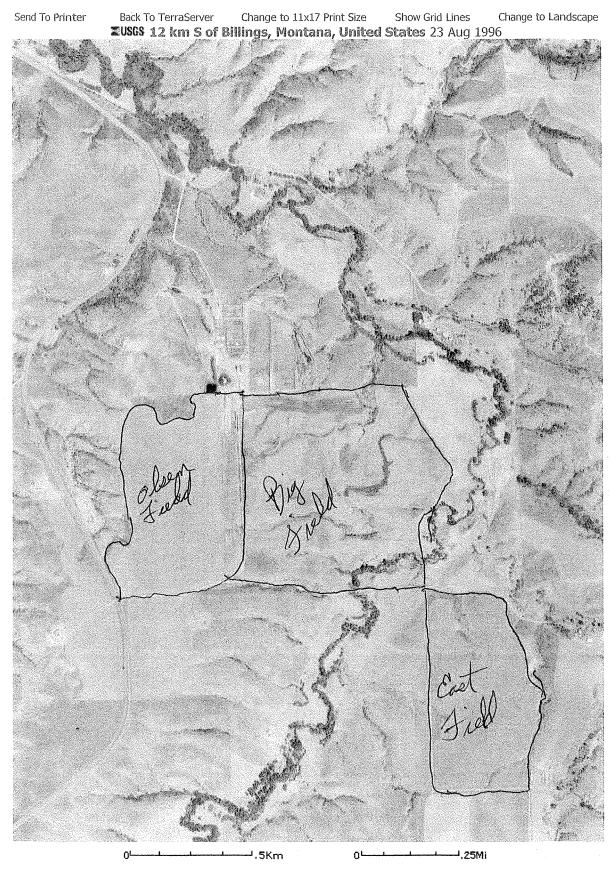


Image courtesy of the U.S. Geological Survey
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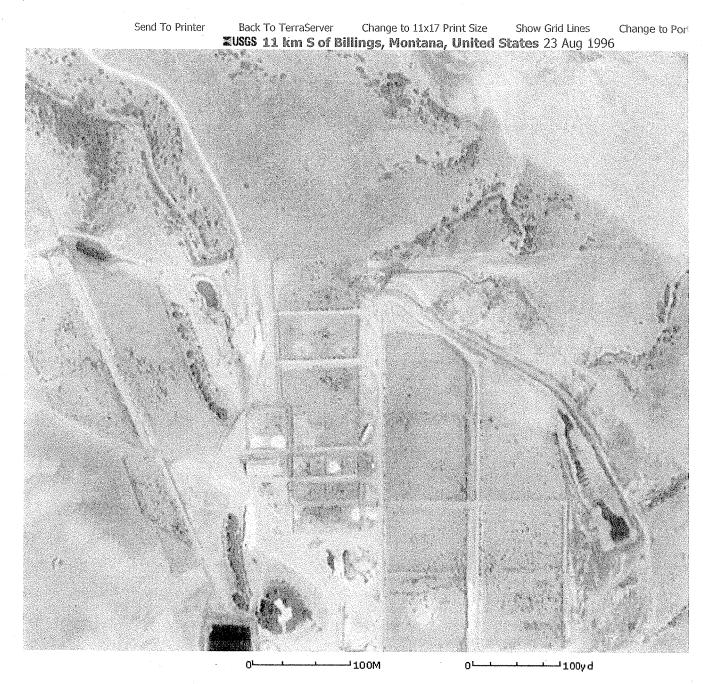
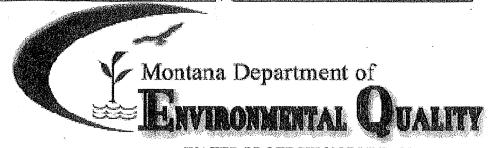


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Agency Use

Permit No.:

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WATER PROTECTION BUREAU

FORM
NMP

Nutrient Management Plan

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Section A - NMP Stat	tus (Check one):		
X New	No prior NMP submitted for this site.		:
☐ Modification	Change or update to existing NMP.		
Permit Number: MT GO	1000 (Specify the permit number that	at was previously assigned	to your facility.)
Section B - Facility or	r Site Information		
Site Name <u>NORMAN H</u>	AALAND BLUE CREEK CATTLE FE	EDERS	
Site Location 24 B	SENDER ROAD		
Nearest City or Town	BILLINGS	County YELLOWSTONE	
Section C - Applicant	t (Owner/Operator) Information:		
Owner or Operator Nam	ne NORMAN HAALAND		
Mailing Address P.O). BOX 97		
City, State, and Zip Coc	de SHEPHERD, MT 59079		
Phone Number (406)	855-4832		

RECEIVED

FEB 0 3 2009

DEOMPS
PERMITTING & COMPLIANCE DIV.

Animal Type and number of animals	# of Days on Site (per year)	Annuai Product		ns,
1. FINISHING CATTLE 7371 HEAD	701,724	18,940	The second second	*****
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TOTAL HEAD DAYS x 54#				
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3. Waste Control Structures	ATTENDO THE TRANSPORT OF THE PROPERTY OF THE P		, and the second	
Waste Control Structure (name/type)	Length (ft)	Width (ft)	Depth (ft)	Volume (cubic ft or gallons)
1. LAGOON 1	135'	40'	9'	48,600 cubic feet
2. LAGOON 2	500'	20'	91	90,000 cubic feet
3. LAGOON 3	600'	200'	14'dike	1,680,000 cubic feet
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5. Clean Water Diversion Practices Describe how clean water is diverted	from productio	on area:		
	from productio	on area:		
	from productio	on area:		
Describe how clean water is diverted	from production	on area:		
Describe how clean water is diverted	from production	on area:		
Describe how clean water is diverted	from production	on area:		
Describe how clean water is diverted	from production	on area:		

2	mals and wastes a						
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	Ditcher & F Pumpisk tion	rs at lose	out to	pumpto	Yagoull	a Legovi	<u></u>
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				***************************************	-		
7. Chemicals and Describe how che		contaminants	are handled c	on-site:			·
NONE							
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8. Best Managen Describe in detail used to control ru Include a schedul are not limited to: installing gutters, decreasing open le amounts of water PEN 24	all temporary, pe noff of pollutants e for implementat constructing ditc downspouts and lot ot surface area; re	ermanent and so from facility's tion of each of thes, terraces, a buried conduit epairing or adju- poses; recycling	s production these measur and waterway ts to divert ro- usting water s water if prac	area. Indicates. Example ys above an of drainage; paystems to mustical and app	ate the location as of BMP measurement to dive providing more inimize water valuable.	of these measures could in the clean water roofed area	asures. nclude but er run on;
Describe in detail used to control ru Include a schedulare not limited to: installing gutters, decreasing open lamounts of water PEN 24 LAGOON	all temporary, per noff of pollutants e for implementate constructing dite downspouts and lot surface area; refor cooling purpow and pens 1 1 IS A NATU	ermanent and so from facility's tion of each of thes, terraces, a buried conduit epairing or adjustes; recycling thru 4 A	s production these measurand waterway ts to divert rocusting water s water if prac RE NATURA TO LAGOON	res. Example ys above an or of drainage; psystems to mustical and app	ate the location as of BMP measurement to dive providing more inimize water valuable.	of these measures could in the clean water roofed area	asures. nclude but er run on; :
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Describe in detail all temporary, permanent used to control runoff of pollutants from fac practices. If not already in use, include a sol details and specifications may be used to sup include but are not limited to: maintaining so irrigation practices to prevent ponding of was frozen ground; consulting with the Departm ground; applying wastes at agronomic rates.	ility's land ap hedule for impoplement this etbacks from a astewater on la	pplication area. Indicate plementation of each of description. Examples surface waters for manuand application sites; needs	te the location of the these measures. At of BMP measures care applications; man ever spray irrigating	ese tached ould naging wastes onto
Plant sampling/tissue analysis	yes/no)		Rotational grazing	(yes/no
Conservation or reduced tillage	yes/no)	Manure injecti	on or incorporation	yes/no
Terraces or other water control structures	yes/no	• (Contour plantings	yes/no
Riparian buffers or vegetative filter strips	yes/no)	Winter "scaveng	ger" or cover crops	yes/no
Other examples				
9. Implementation, Operation, Maintenan	nce and Reco	rd Keeping – Guidand	ce	
The permittee is required to develop guidan maintenance of the facility, and record keep Has a guidance document been developed for	oing as describ	ped in Part II of the pern		and
Certify the document addresses the following Implementation of the NMP: Facility operation and maintenance: Record keeping and reporting: Sample collection and analysis: Manure transfer: Yes Yes	ng requirements No			
Provide name, date and location of most rec				7
New NMP 2007 _	All reco	nds kept at	T-Boxe Fee	175010137
If your answer to any of the above question			jerni v - fi	4 3 010 10 7
	•			
·				

Section E - Land Application
Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility?
No If no, then provide an explanation of how animal waste at this site are managed.
Yes If yes, then the information requested in Section E must be provided.
Photos and/or Maps
Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if
necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"x17" piece of
paper, and must clearly identify the following items:
Individual field boundaries for all planned land application areas
• A name, number, letter or other means of identifying each individual land application field
• The location of any down-gradient surface waters
• The location of any down-gradient open tile line intake structures
The location of any down-gradient sinkholes
The location of any down-gradient agricultural well heads
The location of all conduits to surface waters
The specific manure/waste handling or nutrient management restrictions associated with each land
application field.
• The soil type(s) present and their locations within the individual land application field(s)
• The location of buffers and setbacks around state surface waters, well heads, etc.
Land Application Equipment Calibration
Describe the type of equipment used to land apply wastes and the calibrating procedures:
Afreader trucks average Net Loaded Weight (lbs.) x 21.8
1. t de doaded reight (lbs.) X 21.8
Spreader trucks (liverage Net Loaded Weight (lbs.) x 21.8 Distance Travel (ft.) X Distance between Travel (ft.)
Manure Sampling and Analysis Procedures
A representative manure sample will be analyzed a minimum of once annually for Total Nitrogen, and Total
Phosphorus. Analysis results will be reported in lbs/ton or lbs/1,000 gal. Results of these analyses will be used
in determining application rates for manure, litter, and process wastewater.
Manure Sample collection will occur according to the following method:
The recommended method(s) found in Section 5 of Department Circular DEQ 9
Other (describe)
Soil Sampling and Analysis Procedures
A representative soil sample from the top 6 inch layer of soil in each field will be analyzed for phosphorus
content at least once every five years. Analyses will be conducted by a qualified laboratory, using the Olsen P
test. Results will be reported in parts per million (ppm) and will be used in determining application rates for
manure, litter, and process wastewater.
Soil sample collection will occur according to the following method:
The recommended method(s) found in Section 5 of Department Circular DEQ 9
Other (describe)

Land Application Data-Narrative approach

The following must be filled out <u>for each field</u> to which manure, litter or process wastewater will or may be applied for the period of the permit (5 years). Use as many sheets as necessary to fulfill this requirement. <u>Fields</u> with identical crops and soil types may be grouped together.

Field Name and spreadable acres for each (for fields	with adentical crops and soils (type).
Crop 1 (year 1 or ?) plant species	
Irrigated (YN)	my sacrey
Yield Goal (ton/ac or bushel/ac)	7 1
N Content of soil as nitrate (lbs/acre or ppm)	18 hay
P Content of soil as P ₂ O ₅ (lbs/acre or ppm)	
Time of Year When Application will Occur (month)	Dot 40.
Application frequency (per year by month)	11000
Form of manure (liquid/solid)	geary
Method of Application	1,000 / t
Is manure incorporated or broadcast?	A production of the state of th
Frequency of Application (yearly, biannual, etc.?)	incorporaled
Crop 2	yearry
Irrigated (Y/N)	
Yield Goal (ton/ac or bushel/ac)	
N Content of soil as Nitrate (lbs/acre or ppm)	
P Content of soil as P ₂ O ₅ (lbs/acre or ppm)	
Γime of Year When Application will Occur (month)	
Application frequency (per year, by month)	
Form of manure (liquid/solid)	
Method of Application	
s manure broadcast, injected or incorporated?	
Frequency of Application (Annual, Biannual, ,etc?)	

Phosphorus Risk Assessment

The permittee shall assess the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or may be applied. If a new field is added in the future, then the permittee must submit a revised (modified) NMP. The permittee has the option of using either Method A or Method B (below) to complete the assessment. Copies of all tables and calculations used to complete the assessments, as well as the results of the assessments, shall be submitted to the Department and copies shall be maintained on-site at the facility and available for Departmental review. The results of the assessments shall be used to determine the appropriate basis for land application of wastes from the facility.

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Ind	licate which method will be used to determine phosphorus application:
X	Method A – Representative Soil Sample
	Method B – Phosphorus Index

Method A - Representative Soil Sample

- a) Obtain one or more representative soil sample(s) from the field.
- b) Have the sample analyzed for Phosphorus by a qualified lab. The "Olsen P test" must be used for the analysis, and the result must be reported in parts per million (ppm).
- c) Using the results of the Olsen P test, determine the application basis according to the Table below

Soil Test	
Olsen P Soil Test Result (ppm)	Application Basis
<25.0	Nitrogen Needs Of Crop
25.1 - 100.0	Phosphorus Needs Of Crop
100.0 - 150.0	Phosphorus Needs up to Crop Removal Rate
>150.0	No Application

Method B – Phosphorus Index

- a) Complete a Phosphorus Index according to for each crop grown on each field. Complete table in Appendix A to calculate phosphorus index. For information on filling out specific sections Appendix A, please refer to Attachment 2 of Department Circular DEQ 9.
- b) Using the calculated Total Phosphorus Index Value, assign the overall site/field vulnerability to phosphorus loss according to the table below.

Total Phosphorus				
Total Phosphorus Index Value	Site Vulnerability to Phosphorus Loss			
<11	Low			
11-21	Medium			
22-43	High			
>43	Very High			

c) Using the calculated Site Vulnerability to Phosphorus Loss, determine the appropriate application basis according to the table below.

Site Vulnerability to Phosphorus Loss				
Site Vulnerability to Phosphorus Loss	Application Basis			
Low	Nitrogen Needs			
Medium .	Nitrogen Needs			
High	Phosphorus Need Up to Crop Removal			
Very High	Phosphorus Crop Removal or No Application			

d) The permittee will complete the *lutrient Budget Worksheet*, below, for each crop grown on each field to which manure or process waste water is or may be applied during the first year of application. A copy of each Nutrient Budget Worksheet will be maintained on site, and a copy will be submitted to the Department.

Nutrien	t Budget Worksheet		
Site/Fiel	ld:		
	Nutrient Budget	Nitrogen-based	Phosphorus-based
		Application	Application
	Crop Nutrient Needs, lbs/acre included in		
/	Department Circular DEQ 9		
) r(-)	Credits from previous legume crops,		·
	lbs/acre (from DEQ-9), as applicable		
(-)	Residuals from past manure production, lbs/acre (lbs/acre applied in previous		
	year(s) x fractions listed in DEQ-9)		
(-)	Nutrients supplied by commercial		
	fertilizer and Biosolids, lbs/acre		
(-)	Nutrients supplied in irrigation water,		
	lbs/acre		
	= Additional Nutrients Needed, lbs/acre		
	Total Nitrogen and Phosphorus in manure,		
	lbs/ton or lbs/1,000 gal (from manure test)	,	
(x)	Nutrient Avalability factor (for Nitrogen		
<i>J</i> .	based application see DEQ-9, below; for		
	Phosphorus based application use 1.0)		
	= Available Nutrients in Manure,		
	lbs/ton or lbs/1,000 gal		
	Additional Nutrients needed, lbs/acre		
(/)	(calculated above)		
(/)	Available Nutrients in Manure, lbs/ton or lbs/1,000 gal (calculated above)		
<u> </u>	= Manure Application Rate, tons/acre		
	or 1,000 gal/acre	7	
Commen		Î.	
	Contly Itin		1 + 1+ .
	currency ovaining fiel	a soil sampl	es to determine
carr	power if any from previous	is manure spe	reading and
Call	ulatina manda la inscome	in a COND 110	<i>(</i>
	accuracy mass for upon	org very year	
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<u> </u>			·

Section F - CERTIFICATION

Permittee Information:

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A.	Name	(Type	or	Print)

NORMAN HAALAND

B. Title (Type or Print)

OWNER

C. Phone No.

406-373-6006

D. Signature

E. Date Signed

1-29-2009

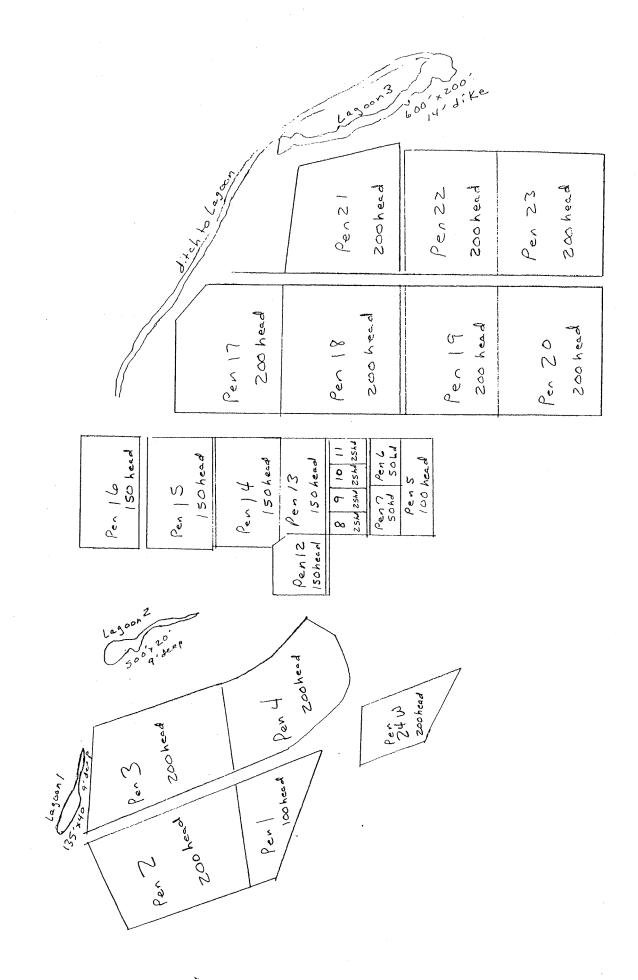
Return the Form NMP, Nutrient Management Plan to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

RECEIVED

FEB **0** 3 2009

DEOMPB PERMITTING & COMPLIANCE DIV.



BLUE CREEK CATTLE FEEDERS GALLONS OF LIQUID WATSE 2008

LAGOON #2 PUMPS TO LAGOON #2

* 4				TOTAL
BEGINNING	ENDING		GALLONS /	GALLONS
TIME	TIME	HOURS	MINUTE	PUMPED
9:00 AM	9:00 AM	24	25	36000
9:00 AM	9:00 AM	24	25	36000
9:00 AM	7:00 AM	22	25	33000
8:00 AM	8:00 AM	<u>48</u>	25	<u>72000</u>
		118		177000
	TIME 9:00 AM 9:00 AM 9:00 AM	TIME TIME 9:00 AM 9:00 AM 9:00 AM 9:00 AM 9:00 AM 7:00 AM	TIME TIME HOURS 9:00 AM 9:00 AM 24 9:00 AM 9:00 AM 24 9:00 AM 7:00 AM 22 8:00 AM 8:00 AM 48	TIME TIME HOURS MINUTE 9:00 AM 9:00 AM 24 25 9:00 AM 9:00 AM 24 25 9:00 AM 7:00 AM 22 25 8:00 AM 8:00 AM 48 25

LAGOON #3 PUMPED TO TRACT 8466 FARM 1729 11 2S 26

					TOTAL
	BEGINNING	ENDING		GALLONS /	GALLONS
DATE	TIME	TIME	HOURS	MINUTE	PUMPED
5/22/2008	8:00 AM	4:00 PM	8	50	24000
5/23/2008	7:00 AM	6:00 PM	11	50	33000
5/24/2008	NOON	11:00 PM	11	50	33000
5/26/2008	6:00 AM	4:00 PM	10	50	30000
5/27/2008	7:00 AM	1:00 PM	6	50	18000
10/13/2008	2:30 PM	8:00 AM	65.5	50	196500
10/22/2008	8:00 AM	4:00 PM	<u>8</u>	50	<u>24000</u>
TOTAL'S			119.5		358500

GALLONS PER ACRE

3585

BLUE CREEK CATTLE FEEDERS

CATTLE MANURE CALCULATION IN LOT

	HEAD	HEAD	CATTLE WT IN
	COUNT	DAYS	plus CATTLE
MONTH	IN LOT	IN LOT	OUT WT
1/2008	237	88191	1293971
2/2008	225	52296	1858122
3/2008	1348	36396	2266023
4/2008	1174	58090	1082388
5/2008	234	70660	1019340
6/2008	257	41363	781318
7/2008	125	36218	498343
8/2008	1454	23790	2301208
9/2008	454	50149	1381787
10/2008	901	74193	1677706
11/2008	315	85357	964099
12/2008	<u>647</u>	<u>85021</u>	<u>1794478</u>
	7371	701724	16918783

16918783# / 7371 HD / 2 = 1148 AVG. 701724 X 54# = 37,893,096 / 2000 = 18,946.548 TONS Blue Creek

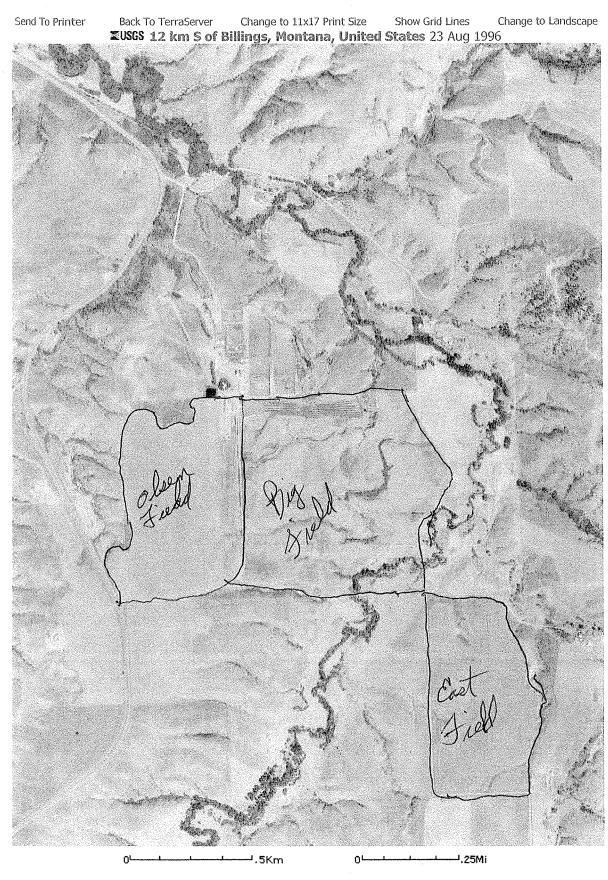


Image courtesy of the U.S. Geological Survey
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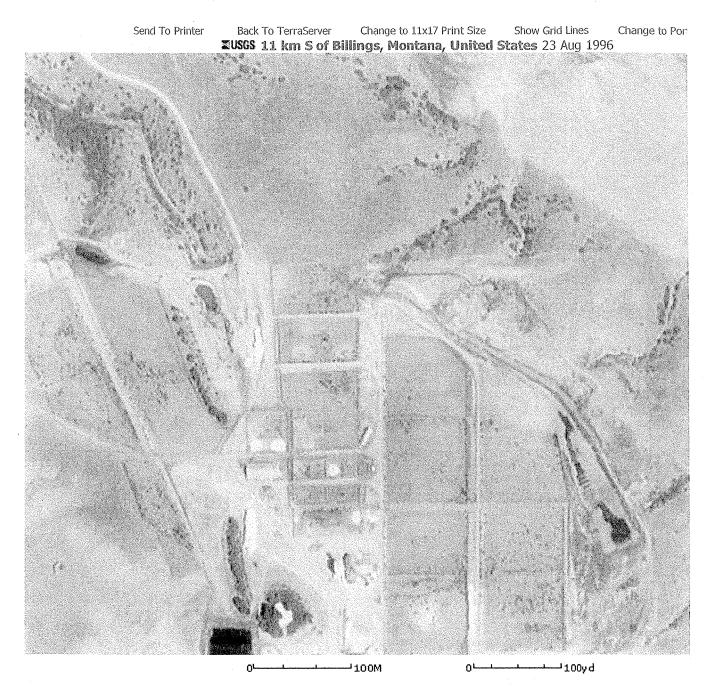
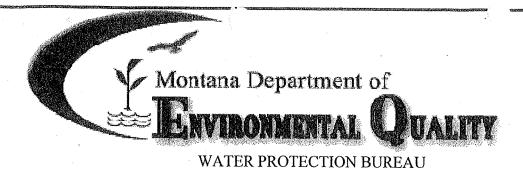


Image courtesy of the U.S. Geological Survey
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Agency Use

Permit No.:

Date Rec'd 2/3/9

Amount Rec'd 0.00

Check No.

Rec'd By

FORM NIMP

Nutrient Management Plan

READ THIS BEFORE COMPLETING FORM: Before completing this form (Form NMP), Concentrated Animal Feeding Operation (CAFO) operators need to read the General Permit, particularly Part IV.A. CAFO operators also need to read the "Instructions For Filling Out Form NMP," found at the back of the Form. Form NMP is intended to help CAFO operators develop a site-specific Nutrient Management Plan, in compliance with Part IV.A of the General Permit and all applicable State rules and statutes. Your Nutrient Management Plan must be maintained at the site as required in Part III of the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your Form 2B. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. For additional help in filling out this form please read the attached instructions. The 2008 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp

Section A - NMP Status (C)	heck one):	
X New No pri	or NMP submitted for this site.	
☐ Modification Chang	ge or update to existing NMP.	
Permit Number: MT G01000	(Specify the permit number that was p	reviously assigned to your facility.)
Section B - Facility or Site	Information:	
Site Name <u>NORMAN HAALA</u>	ND BLUE CREEK CATTLE FEEDERS	
Site Location 24 BENDE	R ROAD	
Nearest City or Town BI		y YELLOWSTONE
Section C - Applicant (Own	er/Operator) Information:	
Owner or Operator Name	NORMAN HAALAND	
Mailing Address P.O. BO	x 97	
City, State, and Zip Code S	HEPHERD, MT 59079	
Phone Number (406) 85	5-4832	

RECEIVED

FEB 0 3 2009

DÉQMPB PERMITTING à COMPLIANCE DIV.

	tock Statistic								*******************************		
Animal '.	Type and nun	nber of anin	nals		# of Days on	ı Site (per ye	ear)	Anni Prodi cu.	uctio	200	ns,
	INISHING	CATTLE	7371 HEA	AD	701,724	1		18,9		The second second	Attended
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		,								**************	***********
ethod us	ed for estima	ting annual	manure produc	ction:					Tillian en en e n en ins tante	**************************************	Yes Care
T	OTAL HEAD	DAYS x	54#								

										•	
	Handling nanure handli	ng at the fac	cility:								
	nanure handli	-	•	AND SI	PREAD TO F	IELDS OR	TO T-	BONE			
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LOA	of Manure R	emoval from	ER TRUCKS	areas:	the confinem		TO T-] No		
this manus of then he	of Manure R ANNUALI are temporariow and wher	emoval from	er TRUCKS	areas: other than BONE ST	the confinement] No		

3. Waste Control Structures				2.5
Waste Control Structure (name/type) .	Length (ft)	Width (ft)	Depth (ft)	Volume (cubic ft or gallons
LAGOON 1	135'	40'	9'	48,600 cubic feet
LAGOON 2	500'	20'	9'	90,000 cubic feet
LAGOON 3	600'	200'	14'dike	1,680,000 cubic fee
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1.				
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Disposal of Dead Animals escribe how dead animals are dispose HAULED TO BAKER C	•	•		
Disposal of Dead Animals escribe how dead animals are dispose	•	•		
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	d Contaminants emicals and other contaminants are handled on-site:
NONE	
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Describe in detain used to control rule a schedulare not limited to installing gutters, decreasing open amounts of water	ment Practice (BMPS) I all temporary, permanent and structural Best Management Practices (BMPs) which will be unoff of pollutants from facility's production area. Indicate the location of these measures. le for implementation of each of these measures. Examples of BMP measures could include but constructing ditches, terraces, and waterways above an open lot to divert clean water run on; downspouts and buried conduits to divert roof drainage; providing more roofed area; lot surface area; repairing or adjusting water systems to minimize water wastage; using practical for cooling purposes; recycling water if practical and applicable.
Describe in detainused to control rule a schedulare not limited to installing gutters, decreasing open amounts of water PEN 24	I all temporary, permanent and structural Best Management Practices (BMPs) which will be anoff of pollutants from facility's production area . Indicate the location of these measures. le for implementation of each of these measures. Examples of BMP measures could include but constructing ditches, terraces, and waterways above an open lot to divert clean water run on; downspouts and buried conduits to divert roof drainage; providing more roofed area; lot surface area; repairing or adjusting water systems to minimize water wastage; using practical for cooling purposes; recycling water if practical and applicable. 4W and pens 1 thru 4 ARE NATURAL FLOW TO LAGOON 1
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Describe in detainused to control rule a schedulare not limited to installing gutters, decreasing open amounts of water LAGOON LAGOON PENS	I all temporary, permanent and structural Best Management Practices (BMPs) which will be anoff of pollutants from facility's production area . Indicate the location of these measures. le for implementation of each of these measures. Examples of BMP measures could include but constructing ditches, terraces, and waterways above an open lot to divert clean water run on; downspouts and buried conduits to divert roof drainage; providing more roofed area; lot surface area; repairing or adjusting water systems to minimize water wastage; using practical for cooling purposes; recycling water if practical and applicable. 4W and pens 1 thru 4 ARE NATURAL FLOW TO LAGOON 1 N 1 IS A NATURAL FLOW TO LAGOON 2 N 2 IS PUMPED TO LAGOON 3 5 THRU PEN 23 are a NATURAL FLOW TO LAGOON 3
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Describe in detail all temporary, permanent used to control runoff of pollutants from fac							
practices. If not already in use, include a sc							
details and specifications may be used to supplement this description. Examples of BMP measures could							
include but are not limited to: maintaining setbacks from surface waters for manure applications; managing							
irrigation practices to prevent ponding of wastewater on land application sites; never spray irrigating wastes onto							
frozen ground; consulting with the Department prior to applying any liquid waste to frozen or snow-covered							
ground; applying wastes at agronomic rates Plant sampling/tissue analysis	yes/no	Rotational grazing	(yes)no				
Conservation or reduced tillage	yesmo	Manure injection or incorporation	(yes/ho				
Terraces or other water control structures	yes/no	Contour plantings	yes/no				
Riparian buffers or vegetative filter strips	yes/no	Winter "scavenger" or cover crops	yes/no)				
Other examples							
9. Implementation, Operation, Maintena	nce and Recor	d Keeping – Guidance					
The permittee is required to develop guidar maintenance of the facility, and record keep			and				
Has a guidance document been developed f	for the facility?	✓ Yes ✓ No					
Certify the document addresses the following	ng requirement	S:					
Implementation of the NMP: X Yes	s 🔲 No		•				
Facility operation and maintenance: Yes							
Record keeping and reporting:							
Sample collection and analysis: Yes Manure transfer: Yes	* -						
Wantire transfer.	5 [] 140						
Provide name, date and location of most re-	cent documents	ation:	1				
	A 9 3						
New NMP 2001 ~	All recon	of kept at T-Bone Fee PermiltHM	ess.				
		PernillHM	R010137				
If your answer to any of the above question							

Section E – Land Application Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility? No If no, then provide an explanation of how animal waste at this site are managed. Yes If yes, then the information requested in Section E must be provided.
Photos and/or Maps Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"x17" piece of paper, and must clearly identify the following items: Individual field boundaries for all planned land application areas A name, number, letter or other means of identifying each individual land application field The location of any down-gradient surface waters The location of any down-gradient open tile line intake structures The location of any down-gradient sinkholes
 The location of any down-gradient agricultural well heads The location of all conduits to surface waters The specific manure/waste handling or nutrient management restrictions associated with each land application field.
 The soil type(s) present and their locations within the individual land application field(s) The location of buffers and setbacks around state surface waters, well heads, etc.
Describe the type of equipment used to land apply wastes and the calibrating procedures: **Application Equipment used to land apply wastes and the calibrating procedures: **Application Equipment Calibration Describe the type of equipment used to land apply wastes and the calibrating procedures: **Application Equipment Calibration Describe the type of equipment used to land apply wastes and the calibrating procedures: **Application Equipment Calibration Describe the type of equipment used to land apply wastes and the calibrating procedures: **Application Equipment Calibration **Application Equipment Calibration **Describe the type of equipment used to land apply wastes and the calibrating procedures: **Application Equipment Calibration **Application Equipment Calibration **Application Equipment Calibration **Application Equipment Calibration **Application Function **Application Equipment Calibration **Application Function **Describe the type of equipment used to land apply wastes and the calibrating procedures: **Application Function **Describe the type of equipment used to land apply wastes and the calibration procedures: **Application Function **Describe the type of equipment used to land apply wastes and the calibration procedures: **Application Equipment used to land apply wastes and the calibration procedures: **Application Function **Application Equipment used to land apply wastes and the calibration procedures: **Application Equipment used to land apply wastes and the calibration procedures: **Application Equipment used to land apply wastes and the calibration procedures: **Application Equipment used to land application Equipment used to land apply wastes and the calibration procedures: **Application Equipment used to land apply wastes and the calibration procedures: **Application Equipment used to land apply wastes and the calibration procedures: **Application Equipment used to land apply wastes and the calibration procedures: **Application Equipment used to land apply was
Manure Sample collection will occur according to the following method:
The recommended method(s) found in Section 5 of Department Circular DEQ 9 Other (describe)
Soil Sampling and Analysis Procedures A representative soil sample from the top 6 inch layer of soil in each field will be analyzed for phosphorus content at least once every five years. Analyses will be conducted by a qualified laboratory, using the Olsen P test. Results will be reported in parts per million (ppm) and will be used in determining application rates for manure, litter, and process wastewater.
Soil sample collection will occur according to the following method: The recommended method(s) found in Section 5 of Department Circular DEQ 9 Other (describe)

Land Application Data-Narrative approach

The following must be filled out <u>for each field</u> to which manure, litter or process wastewater will or may be applied for the period of the permit (5 years). Use as many sheets as necessary to fulfill this requirement. <u>Fields</u> with identical crops and soil types may be grouped together.

Field Name and <u>spreadable acres</u> for each (for fields	withsidentical crops and soils type):
Crop 1 (year 1 or ?) plant species	how has long
Irrigated (Y/N)	The second
Yield Goal (ton/ac or bushel/ac)	77
N Content of soil as nitrate (lbs/acre or ppm)	18
P Content of soil as P ₂ O ₅ (lbs/acre or ppm)	1/-10
Time of Year When Application will Occur (month)	Oct- Mart
Application frequency (per year by month)	11000
Form of manure (liquid/solid)	January 1
Method of Application	1.000 da to h
Is manure incorporated or broadcast?	topologic touches
Frequency of Application (yearly, biannual, etc.?)	Mes sporaled
Crop 2	1 georg
Irrigated (Y/N)	
Yield Goal (ton/ac or bushel/ac)	
N Content of soil as Nitrate (lbs/acre or ppm)	
P Content of soil as P ₂ O ₅ (lbs/acre or ppm)	
Time of Year When Application will Occur (month)	
Application frequency (per year, by month)	
Form of manure (liquid/solid)	
Method of Application	
s manure broadcast, injected or incorporated?	
Frequency of Application (Annual, Biannual, ,etc?)	

Phosphorus Risk Assessment

The permittee shall assess the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or may be applied. If a new field is added in the future, then the permittee must submit a revised (modified) NMP. The permittee has the option of using either Method A or Method B (below) to complete the assessment. Copies of all tables and calculations used to complete the assessments, as well as the results of the assessments, shall be submitted to the Department and copies shall be maintained on-site at the facility and available for Departmental review. The results of the assessments shall be used to determine the appropriate basis for land application of wastes from the facility.

	. •		W T	
N/I	ath	αd	Us	αd
171	CLII	w	$-\mathbf{v}$	cu

Ind	licate	which	method	will b	e used	to deter	mine	phosphorus	application	1:
			- Repres					•	* *	

Method B – Phosphorus Index

Method A - Representative Soil Sample

- a) Obtain one or more representative soil sample(s) from the field.
- b) Have the sample analyzed for Phosphorus by a qualified lab. The "Olsen P test" must be used for the analysis, and the result must be reported in parts per million (ppm).
- c) Using the results of the Olsen P test, determine the application basis according to the Table below

Soil Test						
Olsen P Soil Test Result (ppm)	Application Basis					
<25.0	Nitrogen Needs Of Crop					
25.1 - 100.0	Phosphorus Needs Of Crop					
100.0 - 150.0	Phosphorus Needs up to Crop Removal Rate					
>150.0	No Application					

Method B - Phosphorus Index

- a) Complete a Phosphorus Index according to for each crop grown on each field. Complete table in Appendix A to calculate phosphorus index. For information on filling out specific sections Appendix A, please refer to Attachment 2 of Department Circular DEQ 9.
- b) Using the calculated Total Phosphorus Index Value, assign the overall site/field vulnerability to phosphorus loss according to the table below.

Total Phosphorus					
Total Phosphorus Index Value	Site Vulnerability to Phosphorus Loss				
<11	Low				
11-21	Medium				
22-43	High				
>43.	Very High				

c) Using the calculated Site Vulnerability to Phosphorus Loss, determine the appropriate application basis according to the table below.

Site Vulnerability to Phosphorus Loss	
Site Vulnerability to Phosphorus Loss	Application Basis
Low	Nitrogen Needs
Medium	Nitrogen Needs
High	Phosphorus Need Up to Crop Removal
Very High	Phosphorus Crop Removal or No Application

d) The permittee will complete the *lutrient Budget Worksheet*, below, for each crop grown on each field to which manure or process waste water is or may be applied during the first year of application. A copy of each Nutrient Budget Worksheet will be maintained on site, and a copy will be submitted to the Department.

Nutrient l	Budget Worksheet		
Site/Field:			
	Nutrient Budget	Nitrogen-based	Phosphorus-based
		Application	Application
	Crop Nutrient Needs, lbs/acre included in		
	Department Circular DEQ 9		
(-)	Credits from previous legume crops,		
	lbs/acre (from DEQ-9), as applicable		
(-)	Residuals from past manure production,		
	lbs/acre (lbs/acre applied in previous		
	year(s) x fractions listed in DEQ-9)		
(-)	Nutrients supplied by commercial		
	fertilizer and Biosolids, lbs/acre		
(-)	Nutrients supplied in irrigation water,		
	lbs/acre		
	= Additional Nutrients Needed, lbs/acre		
	- Control of the second of the		
	Total Nitrogen and Phosphorus in manure,		
	lbs/ton or lbs/1,000 gal (from manure test)		
(x))	Nutrient Avalability factor (for Nitrogen		
<i>J</i> .	based application see DEQ-9, below; for		:
	Phosphorus based application use 1.0)		
	= Available Nutrients in Manure,		
	lbs/ton or lbs/1,000 gal		
	Additional Nutrients needed, lbs/acre		
	(calculated above)		
(/)	Available Nutrients in Manure, lbs/ton or	· ·	
	lbs/1,000 gal (calculated above)		
	= Manure Application Rate, tons/acre		
	or 1,000 gal/acre		
Comments			
(currently obtaining fiel	d Doil sampl	as to determine
CAMMA	The Paris Contract of the Paris	1.00	es to determine reading and
1	The som provide	s manure sign	ewoing and
calcu	lating needs for upcom	ing Crop year	
			,
<u> </u>			
		•	
		•	

Section F - CERTIFICATION

Permittee Information:

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A.	Name	(Type	or	Print)
----	------	-------	----	--------

NORMAN HAALAND

B. Title (Type or Print)

OWNER

C. Phone No.

406-373-6006

D. Signature

Morman Hawland

E. Date Signed

1-29-2009

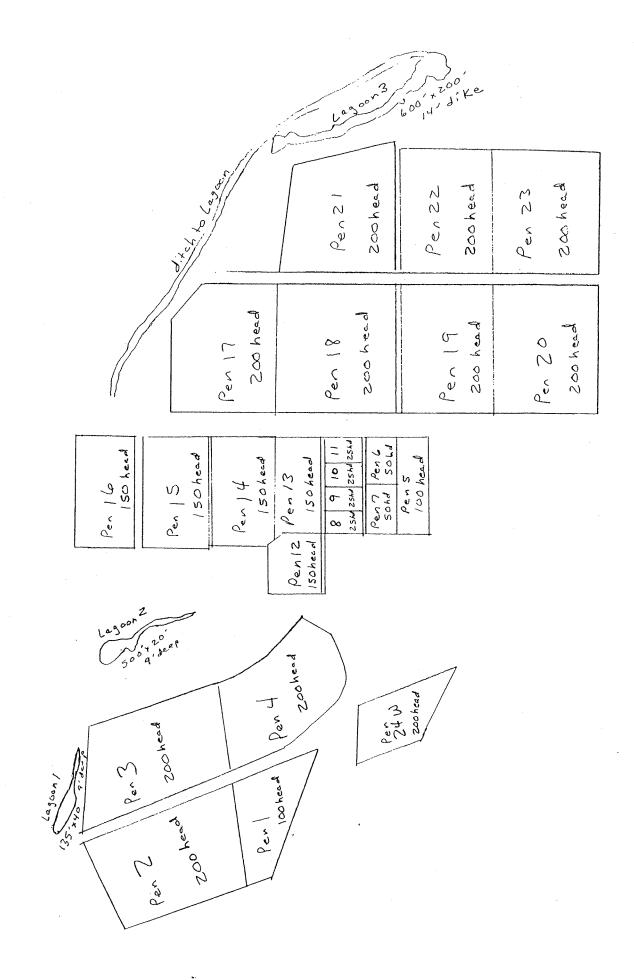
Return the Form NMP, Nutrient Management Plan to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

RECEIVED

FEB 0 3 2009

DEOMPB PERMITTING & COMPLIANCE DIV.



BLUE CREEK CATTLE FEEDERS GALLONS OF LIQUID WATSE 2008

LAGOON #2 PUMPS TO LAGOON #2

				TOTAL
BEGINNING	ENDING		GALLONS /	GALLONS
TIME	TIME	HOURS	MINUTE	PUMPED
9:00 AM	9:00 AM	24	25	36000
9:00 AM	9:00 AM	24	25	36000
9:00 AM	7:00 AM	22	25	33000
8:00 AM	8:00 AM	<u>48</u>	25	<u>72000</u>
		118		177000
	TIME 9:00 AM 9:00 AM 9:00 AM	TIME TIME 9:00 AM 9:00 AM 9:00 AM 9:00 AM 9:00 AM 7:00 AM	TIME TIME HOURS 9:00 AM 9:00 AM 24 9:00 AM 9:00 AM 24 9:00 AM 7:00 AM 22 8:00 AM 8:00 AM 48	TIME TIME HOURS MINUTE 9:00 AM 9:00 AM 24 25 9:00 AM 9:00 AM 24 25 9:00 AM 7:00 AM 22 25 8:00 AM 8:00 AM 48 25

LAGOON #3 PUMPED TO TRACT 8466 FARM 1729 11 2S 26

					TOTAL
	BEGINNING	ENDING		GALLONS /	GALLONS
DATE	TIME	TIME	HOURS	MINUTE	PUMPED
5/22/2008	8:00 AM	4:00 PM	8	50	24000
5/23/2008	7:00 AM	6:00 PM	11	50	33000
5/24/2008	NOON	11:00 PM	11	50	33000
5/26/2008	6:00 AM	4:00 PM	10	50	30000
5/27/2008	7:00 AM	1:00 PM	6	50	18000
10/13/2008	2:30 PM	8:00 AM	65.5	50	196500
10/22/2008	8:00 AM	4:00 PM	<u>8</u>	50	<u>24000</u>
TOTAL'S			119.5		358500

GALLONS PER ACRE 3585

BLUE CREEK CATTLE FEEDERS

CATTLE MANURE CALCULATION IN LOT

·	HEAD COUNT	HEAD DAYS	CATTLE WT IN plus CATTLE
монтн	IN LOT	IN LOT	OUT WT
1/2008	237	88191	1293971
2/2008	225	52296	1858122
3/2008	1348	36396	2266023
4/2008	1174	58090	1082388
5/2008	234	70660	1019340
6/2008	257	41363	781318
7/2008	125	36218	498343
8/2008	1454	23790	2301208
9/2008	454	50149	1381787
10/2008	901	74193	1677706
11/2008	315	85357	964099
12/2008	<u>647</u>	<u>85021</u>	<u>1794478</u>
	7371	701724	16918783

16918783# / 7371 HD / 2 = 1148 AVG. 701724 X 54# = 37,893,096 / 2000 = 18,946.548 TONS

Back To TerraServer Change to 11x17 Print Size Show Grid Lines Send To Printer Change to Landscape **ZUSGS 12** km S of Billings, Montana, United States 23 Aug 1996

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¹.25Mi

J.5Km

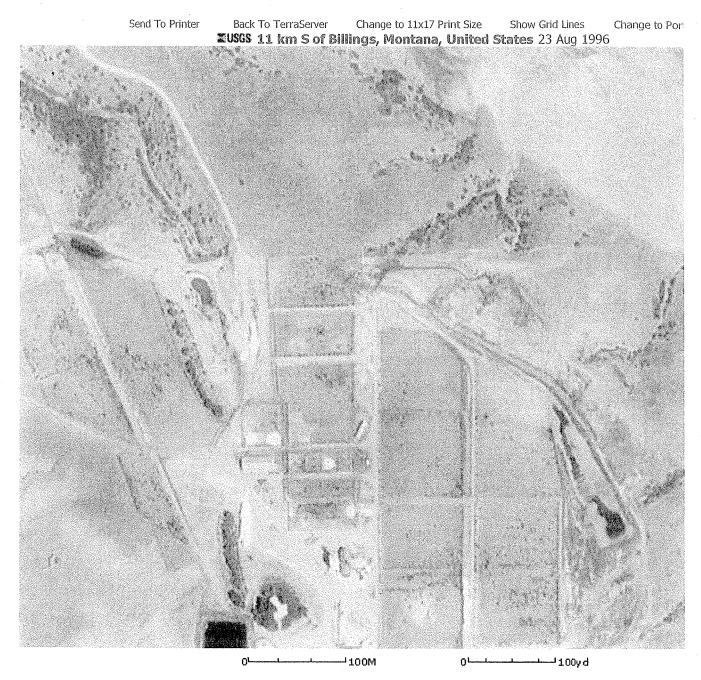


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